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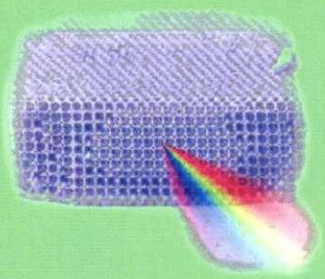

Konferencija

Osma radionica fotonike (2015)

Zbornik apstrakata

PHOTONICS CENTER

Kopaonik, 8.–12. marta 2015.

Konferencija **Osma radionica fotonike 2015**
ZBORNIK APSTRAKATA
Kopaonik 8-12.3.2015.

Izdaje
Institut za fiziku Univerziteta u Beogradu

Za izdavača
dr Aleksandar Belić, direktor

Urednik
dr Dragan Lukić

Tiraž
100 primeraka

ISBN 978-86-82441-41-0

Štampa
Razvojno-istraživački centar,
Tehnološko-metalurškog fakulteta u Beogradu
Karnegijeva 4, Beograd

CIP - Каталогизација у публикацији
Народна библиотека Србије, Београд

535(048)
681.7(048)
66.017/.018(048)

КОНФЕРЕЦИЈА Радионица фотонике (8 ; 2015 ; Копаоник)
Zbornik apstrakata / Konferencija Osma radionica fotonike (2015), Kopaonik, 8.-12. 3. 2015. ; [urednik Dragan Lukić]. - Beograd : Institut za fiziku, 2015 (Beograd : Razvojno-istraživački centar grafičkog inženjerstva TMF). - XII, 46 str. : ilustr. ; 25 cm

Na vrhu nasl. str.: Univerzitet u Beogradu. - Apstrakti na srp. i engl. jeziku. - Tiraž 100. - Reč urednika: str. VII. - Registar.

ISBN 978-86-82441-41-0 (broš.)

a) Оптика - Апстракти b) Оптоелектроника - Апстракти c) Технички материјали - Апстракти

COBISS.SR-ID 213633292

Time resolved fluorescence spectra of YAG:Dy powder samples

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Abstract. Yttrium aluminum garnet (YAG) materials have been widely used as scintillators, solid-state lasers, as well as phosphors. Dysprosium-doped YAG is thermographic phosphor used to measure surface temperature by applying a thin coating of phosphors to the substrate. In this study we investigate time resolved fluorescence spectra of powder samples of YAG:Dy. Our experimental setup is described in detail in [1]. We used OPO (Optical Parametric Oscillator) tuned 368 nm excitation and obtained similar spectral characteristics of the samples as presented in [2]. However, our time resolved data provide possibility of more detailed analysis.

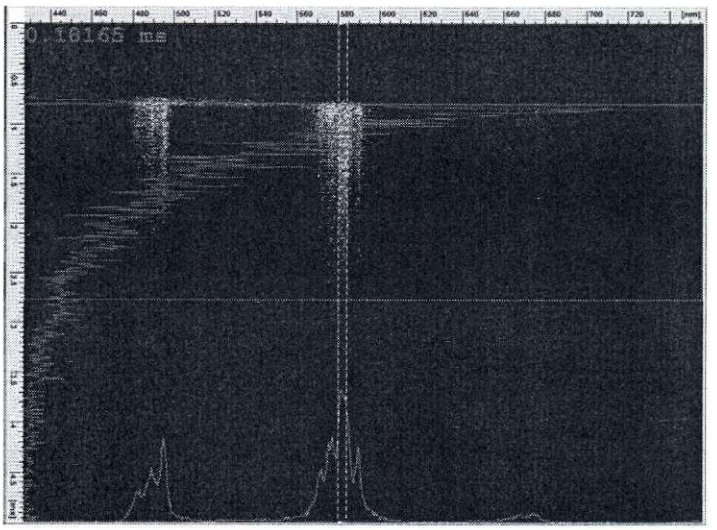

Figure 1. Streak image of fluorescence spectrum of YAG:Dy.

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